

Amendment 171 Contract No. 229944

To the Contract for the Design, Implementation, Operation and Maintenance of the Regional Fare Coordination System

This Amendment 171 to the Contract for the Design, Implementation, Operation and Maintenance of the Regional Fare Coordination System is entered into this 30th day of January, 2012, by and between Vix Technology (USA) Inc (formerly known as ERG Transit Systems (USA) Inc), a California corporation and wholly owned subsidiary of Vix Mobility Pty Ltd, an Australian corporation, (hereinafter referred to as the "Contractor") and each of the following seven public transportation agencies (hereinafter referred to individually as an "Agency" or collectively as the "Agencies"):

1. Central Puget Sound Regional Transit Authority ("Sound Transit")
2. King County ("King County")
3. Kitsap County Public Transportation Benefit Area ("Kitsap Transit")
4. Pierce County Public Transportation Benefit Area ("Pierce Transit")
5. Snohomish County Public Transportation Benefit Area ("Community Transit")
6. City of Everett ("Everett")
7. State of Washington, acting through the Washington State Department of Transportation, Washington State Ferries Division ("WSF")

Recitals

- A. Effective April 29, 2003, each of the Agencies and the Contractor entered into Contract #229944 ("Contract") to implement a Regional Fare Coordination System ("RFC System") to establish a common fare system utilizing smart card technology. The Contractor is responsible for the development, implementation, operation and maintenance of the RFC System as specified in the Contract.
- B. The Agencies and the Contractor desire to amend Section VI of Exhibit 9, Price Schedule Special Programs, to compensate the Contractor to perform the analysis necessary to research certain features of the Mifare Ultralight and Ultralight C disposable card types and make a recommendation to the Agencies on an implementation strategy. This work is more fully described in RFCS-RFI-647 *Mifare Ultralight versus Ultralight C*, per the Agencies' response dated August 17, 2011.
- C. The Parties agree that the Work necessary to complete the work will be performed and compensated as follows.

Agreement

Section 1.0 Description of Work

1.1 The Contractor will perform the work to provide the deliverables in Section 1.2 below and address the following factors as related to the Mifare Ultralight and Ultralight C disposable cards:

- (a) The additional security features available with the Ultralight C card type over the Ultralight card type
- (b) The specific security threats that the Contractor believes exist with disposable cards (e.g. unauthorized reading and writing of data, and card counterfeiting or cloning as noted in CDRL 31, Section 33.8.9)
- (c) How the security features of these two card types (Ultralight and Ultralight C) could, or could not, potentially mitigate against those threats.
- (d) What other features are available in the RFCS to mitigate against those threats
- (e) Which, if any, of the Ultralight C security features the Contractor believes worth pursuing further.
- (f) In qualitative/general terms, the types of impacts on the RFCS that would need to be considered further if the features in item (e) above were pursued.

1.2 The Contractor will provide a written response to the Agencies that will include the following deliverables:

- (a) A discussion paper on the Ultralight C that responds to the Agencies' questions as described in Section 1.1 above.
- (b) A recommendation for the best way for the Agencies to proceed with implementing a disposable card
- (c) A proposed solution to address the Agencies' concerns
- (d) A summary of any identified issues, risks or system constraints that need to be considered in the recommendation or limit the proposed recommendation
- (e) A detailed cost estimate for the recommendation and an initial schedule impact
- (f) A list of configuration items that will be modified or added for the change resulting from the proposed recommendation
- (g) A summary of any waivers that will be required by the Contractor in order to perform the work.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the sufficiency of which is hereby acknowledged, the Parties hereby agree to amend the Contract as follows:

Section 2.0 Compensation Changes

Section VI (Implementation) of Exhibit 9, Price Schedule, is hereby amended to read as follows:

VI. IMPLEMENTATION

SPECIAL PROGRAMS

LUMP SUM COST

Amendment No. 171

To perform the work necessary to provide analysis of the Mifare Ultralight versus the Ultralight C disposable card types and recommendations for the Agencies.	
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TOTAL	\$4839
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Section 3.0 Other Terms and Conditions

All other provisions of the Contract not referenced in this Amendment One Hundred and Seventy-one shall remain in effect.

IN WITNESS WHEREOF, authorized representative of the Agencies and the Contractor have signed their names in the spaces provided below.

Vix Technology (USA) Inc.
By: D. W. Th.
Its: General Manager
Date: 1/26/12

The Agencies
By: Candace Carlson
Their: Operations Manager
On behalf of the Agencies
Date: January 30, 2012